

Listing of Claims:

1. (Currently Amended) A reformer comprising:

a micro reactor ~~in which~~ comprising a flow path ~~is formed~~ for a fluid; ~~to~~ flow inside; and

5 an atmosphere on a periphery of the micro reactor at a pressure ~~lower than external pressure of not more than 1 Pa.~~

2. (Currently Amended) The reformer according to claim 1, further comprising:

adsorption means for adsorbing a medium which ~~exists is~~ present inside the container and which propagates heat.

Claim 3 (Canceled).

4. (Original) The reformer according to claim 1, further comprising:

heating means for generating heat to heat the micro reactor.

5. (Currently Amended) The reformer according to claim 1,
~~wherein the reformer which~~ is manufactured by accommodating the micro reactor in the container under a heated atmosphere.

6. (Currently Amended) The reformer according to claim 1,
further comprising:

heating means for heating the micro reactor for reacting a
reaction in the micro reactor and for heating an atmosphere in
5 the container for exhausting the atmosphere when the micro
reactor is accommodated in the container.

7. (Currently Amended) The reformer according to claim 5,
wherein a temperature of the heated atmosphere when the micro
reactor is accommodated in the container to which the atmosphere
is heated is higher than a temperature at which the fluid causes
undergoes a reaction in the micro reactor.

8. (Original) The reformer according to claim 1, wherein
the micro reactor comprises a reactor which changes the fluid
from a liquid phase to a gas phase.

9. (Original) The reformer according to claim 1, wherein
the micro reactor comprises a reforming reactor which produces
hydrogen from the fluid.

10. (Original) The reformer according to claim 1, wherein
the micro reactor comprises a reforming reactor which reforms
carbon monoxide in the fluid into carbon dioxide.

11. (Currently Amended) The reformer according to claim 1,
further comprising [:] temperature measurement means for
measuring the a temperature of the micro reactor.

Claims 12-22 (Canceled)

23. (Currently Amended) A reformer comprising:
a micro reactor ~~in which~~ comprising a flow path ~~is formed~~
for a fluid; ~~to~~ flow inside;
a container which accommodates the micro reactor and keeps
an atmosphere on a periphery of the micro reactor at a pressure
~~lower than external pressure of not more than 1 Pa;~~ and
adsorption means for adsorbing a medium which ~~exists is~~
present inside the container and which propagates heat.

24. (Original) The reformer according to claim 23, wherein
the adsorption means comprises a polyimide-based material.

25. (Original) The reformer according to claim 23, wherein
the adsorption means comprises a porous film.

26. (Currently Amended) The reformer according to claim 23,
wherein the adsorption means ~~has~~ comprises a surface coated with
a material which physically adsorbs water or oxygen.

27. (Currently Amended) The reformer according to claim 23,
wherein the adsorption means ~~has~~ comprises a surface coated with
a material which chemically adsorbs water or oxygen.

Claims 28-31 (Canceled)